

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Please handle

REGION VII 726 MINNESOTA AVENUE KANSAS CITY, KANSAS 66101

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MAY 0 8 1990

MEMORANDUM

SUBJECT:

Request for Removal Assessment

Deer Valley Site

St. Louis County, Missouri

FROM:

Robert L. Morby Ford C. Chief, WSTM/SPFD

TO:

John R. Helvig Chief, ENSV/EP&R

We request that you perform a removal assessment for the subject site. The Deer Valley Site which was formerly the site of a drum reconditioning facility was the subject of a recent site inspection by the MDNR. As the attached inspection report indicates, the site owner (Teamster's Local #682, Health and Welfare Trust Fund) had an investigation performed in September of 1988. During the investigation, four buried drums were uncovered. One of the drums contained an ignitable waste which appeared to be a paint waste. Additionally, low levels of chloroform and methylene chloride were found in the soil at the site.

Since the site inspection indicated that a significant quantity of hazardous substances may be buried at the site, the MDNR attempted to get the owner to perform additional work. MDNR's negotiations were unsuccessful. Thus, we are requesting that you perform a removal assessment. If you have further questions, please call Greg Reesor at 551-7695.

Attachment

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POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

Deer Valley Site St. Louis County, Missouri

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Prepared by:

Bob Carlson Environmental Specialist II Missouri Department of Natural Resources St. Louis Regional Office

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I. EXECUTIVE SUMMARY

The Deer Valley Site is located on privately owned property in a .non-urban but "developing area of "St. douis County, Missouri. The property was occupied by a drum reconditioning company from the late. _1950's **<to** 1969. A large number of 55-gallon drums are visible in various stages of burial; most of these drums appear to be empty. However, a metal detector survey conducted by the Department indicated the presence of large areas of buried metal. Excavation revealed the presence of five drums, of which four were sampled, as well as large quantities of buried scrap metal, including roll-up door tracks and drum heads. Air-photos taken over-the last 25 years indicated that all arge number of drums may have been buried onsite in the Tate 1960s. Contamination of groundwater is possible if hazardous wastes are buried due to surface water flow into a sinkhole complex. Human exposure is also possible due to the proximity of new homes and a recreation facility, but unlikely because no surface contamination has been documented and all exposed drums known to contain wastes have been previously removed from the site, except for the four drums sampled during the excavation, which were overpacked and left onsite. "No Trespassing" signs were placed around the site, and neighboring property owners were advised to keep employees and patrons away. At the time of the Preliminary Assessment, an adjacent property owner planned to purchase the property for the construction of softball fields, but apparently shelved the plans upon learning of the possibility of hazardous wastes being present.

Sampling revealed the presence of hazardous organic chemicals and heavy metals above background levels in excavated drums and soil samples. In addition, barium and vinyl chloride were detected in the onsite well at levels exceeding those established in the Missouri Clean Water Standards, and concentrations of two more hazardous organic chemicals were also detected.

Further excavation and sampling are necessary to determine the total amount of wastes present and the environmental threat posed thereby.

II. BACKGROUND INFORMATION

On December 15, 1986 the St. Louis Regional Office (SLRO) of the Missouri Department of Natural Resources (MDNR) received a call from a potential property buyer in the new Deer Valley Subdivision east of Sinks Road in St. Louis County. (See Attachment K.) The complainant reported the presence of a number 55-gallon drums of unknown contents, and he requested an investigation by this office.

An initial site visit was conducted on December 19, 1986 by Mr. Michael Wolf, Environmental Specialist, SLRO. Several areas of drum disposal were observed on the property, including a pile of eighteen drums labelled "Petrolite Corporation, Tretolite Division". These "Petrolite" drums appeared to be the most recently dumped, but still were estimated to have been dumped 15 to 20 years previously. Where soil erosion had occurred on the property there were partially and completely crushed drums visible several feet below the ground surface. Judging by the condition and location of the various drums observed, the dumping at this site occurred over a long period of time.

Preliminary investigations revealed that the site was not on property in Deer Valley, but on adjacent property owned by Teamsters Local #682, Health and Welfare Trust Fund. The 25.3 acre property is directly east of Deer Valley, north of Whiting Roll Up Doors (a truck door manufacturer) at 5015 N. Highway 67, and west of the Jamestown Sports Complex (an indoor soccor facility) at 5105 N. Highway 67. (See Attachment L.) When interviewed, Mr. Lauren Whiting, the owner of. Whiting Roll Up Doors, stated that the property was at one time owned and occupied by a drum reconditioning company. Mr. Whiting purchased the property in 1969 and in 1973 sold it to the Teamsters Local. Mr. Whiting continued operations at the property, and in 1978 purchased back only that three acre parcel currently occupied by the company.

Subsequent investigations revealed that one area of buried metal extend onto the Whiting property, and that another such area existed on the property to the west of the Whiting parcel. Also, one are of partially buried drums lay along a ravine trending east to west, the majority of which lay on the property to the west of the Teamsters parcel.

An old brick kiln structure (lined inside with concrete,) located about one hundred feet east-northeast of the Whiting building, was possibly used by previous occupants to burn out residues in drum reconditioning business. Ashes and cinders were observed adjacent to the kiln on the south and east sides, along with a few drum heads.

The overall appearance of the site and its relation to the facility reportedly occupied by a drum reconditioning facility was consistent with dumping that might have occurred from such a business in the 1950's and 1960's. Because there seemed to be a high potential for environmental contamination, the decision was made to handle the investigation through the PA/SI program. A Site Identification Form (EPA Form 2070-11) was completed on December 22, 1986.

The Deer Valley Site can be reached as follows:

From I-270, take Highway 67 (Lindbergh Boulevard) north approximately six miles to Jamestown Sports Complex. Turn left at sports complex and left to Whiting Roll Up Doors. Disposal area is north of the Whiting facility.

The legal description of the site is as follows:

Located in NW 1/4, NW 1/4, NE 1/4 of Sec. 18 and SW 1/4, SW 1/4, SE 1/4 of Sec. 7, T. 47 N., R. 7 E., St. Louis County, Florissant Quadrangle.

The site is located at 38° 49'20" N latitude and 90° 16'04" W longitude.

The Preliminary Assessment, completed on January 21, 1987, recommended that drum contents, spill residues, and nearby soils be sampled, that a metal detector sweep be conducted to determine the extent of drum burial, and that excavation of buried drums be performed to determine the presence of buried hazardous wastes.

On January 8, 1987 a second site visit was conducted by Mr. Wolf with representatives of the Petrolite Corporation to inspect the "Petrolite" drums. After examining the drums and researching company files, Mr. T. J. Robichaux, Director of Health, Safety, and Environmental Affairs at the company, revealed that the drums formerly contained phenolic formaldehyde resins in aromatic hydrocarbons, used as demulsifiers in oil production. Evidently, some of the product was returned to the company at some time in the 1960's by a customer due to polymerization which prevented its use. After Petrolite recovered any free liquids, the drums were discarded. Mr. Robichaux was unable to determine how the drums were discarded, but sale to a drum reconditioner was considered likely.

On January 21, a program of dimited site sampling was conducted. Present were Mr. Wolf, Mr. Kerwin Singleton, SLRO, Mr. Greg Schoen, Laboratory Services Program (LSP), and Mr. Bill Johnson, LSP. Samples of soils, "Petrolite" drum contents, and spill residues were collected. Most of the other drums on the site appeared to be empty; some had contents but were frozen and could not be sampled. The sample analyses results (Attachment I) showed no contamination of the soil. One composite drum sample (#87-0463) was determined to be hazardous based on ignitability (flashpoint of 54 C.).

On January 23, Mr. Robichaux requested permission from MDNR to remove from the site those drums bearing the company's labels. On February 24, MDNR approved that request, and on March 10-a-contractor hired by Petrolite removed a total of 22 drums. Four leaking drums were overpacked in recovery drums. The drums were temporarily stored at the Petrolite facility in Webster Groves, Missouri prior to off-site disposal as a hazardous waste.

On March 3 a metal detector sweep of the property was conducted by Mr. Schoen. Also present were Mr. Wolf and Mr. Singleton. The survey indicated the presence of buried metal in three areas of the site, although it was difficult to determine whether these were three distinct areas or portions of one area. Due to these readings, noted variations in the topography and vegetation on the site, as well as the presence of partially exposed drums, it appears the site could contain a large volume of buried drums.

A summary of the site ownership history is as follows:

(1950's) ? - 1963
Mr. Frank E. Westerhold
F. E. Westerhold Cooperage Company
(address and current status of Mr. Westerhold unknown)

1963 - 1969 Mr. Robert G. Evans Evans Steel Barrel, Inc. P. O. Box 95 Harvey, Louisiana 7005B (504) 368-6000 -,-

1969 - 1973
Mr. Lauren Whiting
Whiting Roll Up Doors Manufacturing Corp.
113 Cedar Street
Akron, New York 14001
(716) 542-5427

1973 - present

Teamster's Local #682, Health and Welfare Trust Fund c/o Wiley, Craig, Armbruster & Wilburn Suite 650, Shell Building 1221 Locust Street St. Louis, Missouri 63103 (314) 231-1018

On April 3, 1987. Mr. Robert Evans was contacted for information regarding his company's operations at the Deer Valley site. Following is a summary of the information he provided:

Prior to 1963 the property was occupied by the F. E. Westerhold Cooperage Company, a drum reconditioning company owned and operated by Mr. Frank E. Westerhold. In 1963, Evans Steel Barrel, Inc. purchased the company and operated it as Westerhold Containers. Inc. until 1969.

Westerhold Containers, Inc. purchased drums containing a wide range of product residues from many area businesses for reconditioning and resale. "Company practice was to accept drums with only "limited quantities of material", although Mr. Evans admitted that due to the lack of hazardous waste regulations at that time, drums may have contained varying quantities of products depending on their viscosity. He did not recall the names of the companies from which drums were accepted.

Mr. Evans stated that drum residues were hauled from the site for disposal, and unusable drums were sold to a scrap metal dealer. He could not recall the names of the firms which hauled residues from the site. Mr. Evans was not involved in the day-to-day operations of the facility. He stated that there were several managers at the plant over the years it operated. He had no knowledge of any on-site waste disposal during the years Evans Steel Barrel Company owned the property. He was unaware of waste management practices at the site prior to 1963. In 1969 the plant was sold to Whiting Roll Up Doors.

on-October-20, 1987 Mr. Evans was again contacted for additional details about his company's operations at the site. Mr. Evans stated that his search for company records pertaining to plant operations at the site had been unsuccessful; these records may have been destroyed several years ago when the St. Louis based company was dissolved. He stated that there were no employees of his company with knowledge of the Deer Valley site.

Mr. Evans repeated his earlier assertions that he had no knowledge of drum burial at the site, but admitted that such burial could have occurred prior to his ownership of the property. At the time of his purchase of the company no reliable operational records were available.

Mr. Evans also indicated that Frank Westerhold's father may have been in the drum reconditioning business 40 to 50 years prior to Frank Westerhold's company, but Mr. Evans did not know if the business operated at Deer Valley.

Attempts to reach Mr. Frank Westerhold to determine details of his operations at the site were unsuccessful. Indications are that he is deceased.

In October of 1987 the property owners hired Mr. Cliff Metcalf (Metcalf and Associates, 217 North Second Street, St. Charles, Missouri 63301, (314) 946-4499) to develop a Remedial Action Plan for the site. In December of 1987 Mr. Metcalf submitted a draft Remedial Investigation Plan to the Department for review. After a review of the draft plan, the Department responded with numerous comments. A revised plan was submitted on June 14, 1988, and approved on June 23, 1988 (Attachment H).

Remedial Investigation activities began on September 8, 1988, and ended on September 23, 1988. Mr. Greg Schoen served as on-site coordinator (OSC) and collected sample splits for 16 of the 28 samples taken. Mr. Bob Carlson, Environmental Specialist, SLRO, visited the site on September 8, 12, 15, and 23, 1988, to monitor clearing, drilling, excavating and sampling activities.

As noted in the sampling reports (Attachments F & G) hazardous materials were present in soil samples and excavated drums. In addition, large quantities of scrap metal and crushed drums were uncovered. Much of the scrap consisted of tracks from truck roll-up doors such as are manufactured in the Whiting building.

On September 30, 1988, a meeting was held onsite between Mr. Lauren Whiting and representatives of Metcalf and Associates and the Missouri Department of Natural Resources. Mr. Whiting stated that some of the buried material was from his company's operations. He referred to an order by representatives of St. Louis County to cease burning refuse generated by the company, and to bury the solid wastes disposed on the site at the time (early 1970s, exact year unknown.) However, he expressed surprise that drums containing liquids had been uncovered in the investigation.

III. ENVIRONMENTAL SETTING

The elevation of the Deer Valley Site ranges between 510 and 530 feet above mean sea level. The topography of the area is gently rolling and is pockmarked with dozens of sinkholes. The site slopes gently to the northwest toward a small pond, which was drained during construction at the Deer Valley Development. The pond is probably a filled-in sinkhole.

The site is in one of the most intensely developed karst areas in the state. The bedrock consists of argillaceous to arenaceous limestones, fractured and highly solution-weathered due to a domal structure about a mile north of the site. Surficial soil is up to 40 feet thick, consisting of loess and residual cherty clay, of moderate to high permeability, and is classified as the Menfro silt loam, classifications 2c and 14e (Attachment L). The upper 400 feet of bedrock forms the aquifer of concern, underlain by a shale of low permeability. Solution conduits probably extend to 100 feet below ground surface, fed by a large number of sinkholes in the area.

Drainage could proceed rapidly to the northeast, northwest, or south, along three zones of intense sinkhole development, discharging in the form of springs, which have not yet been located. Dispersal of waste constituents could therefore be over a wide area, and could threaten wildlife and humans in unexpected locations (Attachment D).

The property lies within the drainage basin formed by the Missouri River and its east-central tributaries between the Gasconade River and the Missouri River's mouth, the East Lower Missouri River Basin. This basin drains 1999 square miles. According to Mr. Charles Williams, MDNR-DGLS, surface drainage from the site is to the northwest into a sinkhole complex, which drains directly into the Mississippi Aquifer. For this reason the potential for groundwater contamination is a major concern at the site. The most likely direction of groundwater flow is to the northeast, with discharge along the south bank of the Missouri River. However, flow could also be to the northwest along that particular zone of sinkhole development, with discharge in a spring along Mill Creek, or to the southeast along Coldwater Creek.

Precipitation data for the region are as follows:

average annual precipitation	37 inches
mean annual lake evaporation	36 inches
net annual precipitation	1 inch
heaviest 24-hour rainfall	3 inches
average annual runoff	10 inches

The above figures are approximate, and do not reflect the amount of runoff into the sinkhole complex, which may leave a net precipitation of less than zero.

The site is located in a formerly lightly populated but recently developing portion of St. Louis County. To the north lie scattered houses and farms; to the east is the new Deer Valley Development with approximately twenty large single family homes on three acre lots. To the southwest is a subdivision of about 50 homes. To the west lie a few new homes on a new road that is being developed. The nearest transient population are workers at Whiting Roll Up Doors and users of the Jamestown Sports Complex.

The water supply for the area residences is a water intake on the Missouri River, about eight miles to the southwest, or about 11 river miles upstream. The intake and water system are owned by the St. Louis County Water Company. As far as has been determined, the only wells in the area were drilled for oil and gas exploration, or for commercial/industrial water use (Attachment D). The well on the Whiting property is used for wash water and manufacturing purposes, and the company uses a delivery service for drinking water.

There are no wetlands in the area, and the nearest critical habitat is Mosenthein Island on the Mississippi River, a nesting site for the endangered American bald eagle, <u>Haliaeetus leucocephalus</u>, about seven miles east of the site. Dilution over the approximately 16 river miles between the Deer Valley site and Mosenthein Island, and the two miles of sinkhole channels to the Missouri River, probably eliminates any immediate threat to the nesting population.

IV. WASTE CHARACTERIZATION

The original quantity of wastes deposited cannot be determined without further excavation. However, given the history of the site (a drum-reconditioning business in operation for at least 20 years, and possibly since the turn of the century,) and the information contained in the aerial photographs (showing perhaps several thousand drums stockpiled, and later considerably fewer drums and large areas of disturbed earth), it seems reasonable to infer the presence of a large quantity of hazardous wastes of many types, several perhaps incompatible in nature. Many of the stockpiled drums may have been sold or taken to the Louisiana facility, when Evans' St. Louis operation closed down. However, for HRS scoring purposes, the total quantity of waste was assumed to be about 500 full drums, or 25,000 gallons.

Sample analyses bear out the presence of several hazardous materials. Materials exhibiting concentrations significantly above background or detection levels were: (organics) acetone, chloroform, ethylbenzene, methylene chloride, toluene, and trichloroethylene; (metals) cadmium, mercury, and lead. Several hazardous substances were detected of levels exceeding background or detectability levels, though not by "significant" amounts (as defined in Reference 3).

Other materials detected during laboratory analyses were chlordane, polychlorinated biphenyls (PCBs) - unofficial (see Attachment G) - and styrene. Substances detected in the water sample from the Whiting well were barium, carbon disulfide, 1,1-dichloroethane (ethylidine chloride), and vinyl chloride. Of the above, both barium and vinyl chloride exceeded state clean water standards for groundwater. Standards for the other two substances are unknown. (See Attachments F and G for a list of concentrations. Where results differed, the higher value was used for hazard ranking purposes.)

Two samples of drum contents exhibited flashpoints below 60° C, and are thus hazardous wastes by the characteristic of ignitability. (Attachments F and I, sample #s 88-0698 and 87-0463.)

V. ERRIS DATA

The ERRIS list was reviewed, and no additions or corrections were necessary.

IV. CONCLUSIONS AND RECOMMENDATIONS

There is at present little risk of exposure through public contact, or of fire and explosion. The groundwater route, however, is of greater concern, as contaminants may spread, or may already have spread, over a large area. As the points of emergence are unknown at present, the extent of possible environmental damage is difficult to estimate, as are the types and number of potential targets. Though the aquifer is apparently not used for drinking water, chronic skin or inhalation exposure to the substances present in the Whiting well may also be of concern to employees of the plant.

The most important unanswered question is the total amount of hazardous wastes present at the site. While initial excavations have uncovered much more scrap metal than drums, reflecting the period in which the Whiting plant was in operation, it is possible that deeper layers contain many of the drums seen in the air photos taken previous to Whiting's occupation of the property. As this factor determines the seriousness of the potential detrimental effects on human health and the environment, it is recommended that a more complete excavation be conducted so that all hazardous materials present may be disposed of properly. Funding for such an operation should be provided by Messrs. Evans and Whiting, as PRPs, Mr. Westerhold's estate, if leads can be found, and perhaps by Teamsters Local #682 and the other property owners as well. Other PRPs to be considered are Petrolite, Dow, and Schenectady, due to the product drums from those companies found at the site.

IV. SIGNATURES

Prepared by:

Bob Carlson

Environmental Specialist II

Missouri Department of Natural Resources

St. Louis Regional Office

7-21-89

Date

Approved:

F. Donald Maddox

Regional Administrator

Missouri Department of Natural Resources

St. Louis Regional Office

Date

REFERENCES

Reference Number	Description of the References
1.	Uncontrolled Hazardous Waste Site Ranking System: A Users Manual, National Oil and Hazardous Substances Contingency Plan, Appendix A (40 CFR 300) (47 FR 31219), July 16, 1982.
2.	<u>Site Inspection Training Course</u> and <u>Appendices</u> , Hazardous Site Control Division, U.S. Environmental Protection Agency, September 28, 1984.
з.	MITRE HRS Training Course, publisher and date unknown.
4.	Missouri Water Atlas, Missouri Department of Natural Resources, 1986.
5.	The Merck Index, Merck & Co., 1976.
6.	Sax, <u>Dangerous Properties of Industrial Materials</u> , Van Nostrand Reinhold Co., 1979.
7.	Soil Survey of St. Louis County and St. Louis City, Missouri, U. S. Department of Agriculture, Soil Conservation Service, in cooperation with Missouri Agricultural Experiment Station, April 1982.

VIII. ATTACHMENTS

- A. Site Inspection Report
- B. HRS Worksheets and chart showing significant concentrations
- C. Documentation Records for Hazard Ranking System
- D. MDNR-DGLS Hydrogeologic Report
- E. Missouri Department of Conservation Report
- F. MDNR-LSP Site Sampling and Investigation Report
- G. Metcalf & Associates Remedial Investigation Report
- H. Metcalf & Associates Remedial Investigation Plan
- I. MDNR-LSP Site Investigation and Sampling Report
- J. Preliminary Assessment
- K. Site Identification
- L. Site Maps

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	I. IDENTIFICATION
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POTENTIAL HAZARDOUS WASTE SITE SITE IDENTIFICATION

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III. RESPONSIBLE PARTIES						
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Teamsters Local #682 Trust Fund		57	30 Eliza	beth Avenue		
03 CITY		04 STATE		06 TELEPHONE NUMBER		
St. Louis		MO	63110.	(314) 993-6958	•	
07 OPERATOR (# known and different from owner)		OB STREE	(Business, residenti	al, mailing) -		
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VI. INFORMATION AVAILABLE FROM						
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POTENTIAL HAZARDOUS WASTE SITE

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MAY 1 3 1987

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SITE LOG

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POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

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осс	OTHER ORGANIC C	HEMICALS			<u> </u>		· · · · · · · · · · · · · · · · · · ·
юс	INORGANIC CHEMI	CALS					
ACD	ACIDS						
BAS	BASES						 ^
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (500	Appendis for most trequ	endy cited CAS Numbers)				
01 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	OS MEASURE OF CONCENTRATION
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V. FEEDST	OCKS (See Appendix to CAS M.	mbers)			•		
CATEGOR	NY 01 FEEDST	OCK NAME	02 CAS NUMBER	CATEGORY	OI FEED	STOCK NAME	02 CAS NUMBE
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FDS				FDS			
VI. SOURC	ES OF INFORMATION	to specific references	, e.g., state Noc. sample analysis,	reports)			
•	site inspection	12/19/86.					

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

OI STATE OZ SITE MANBER

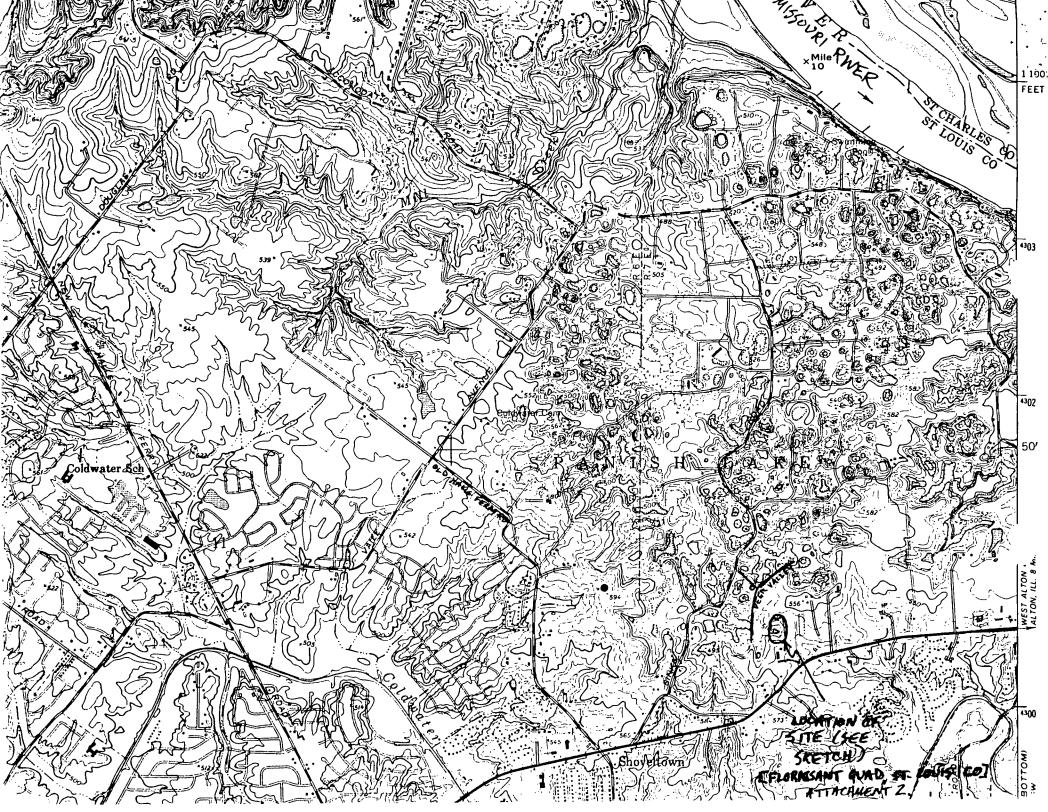
MO DAS 11 201

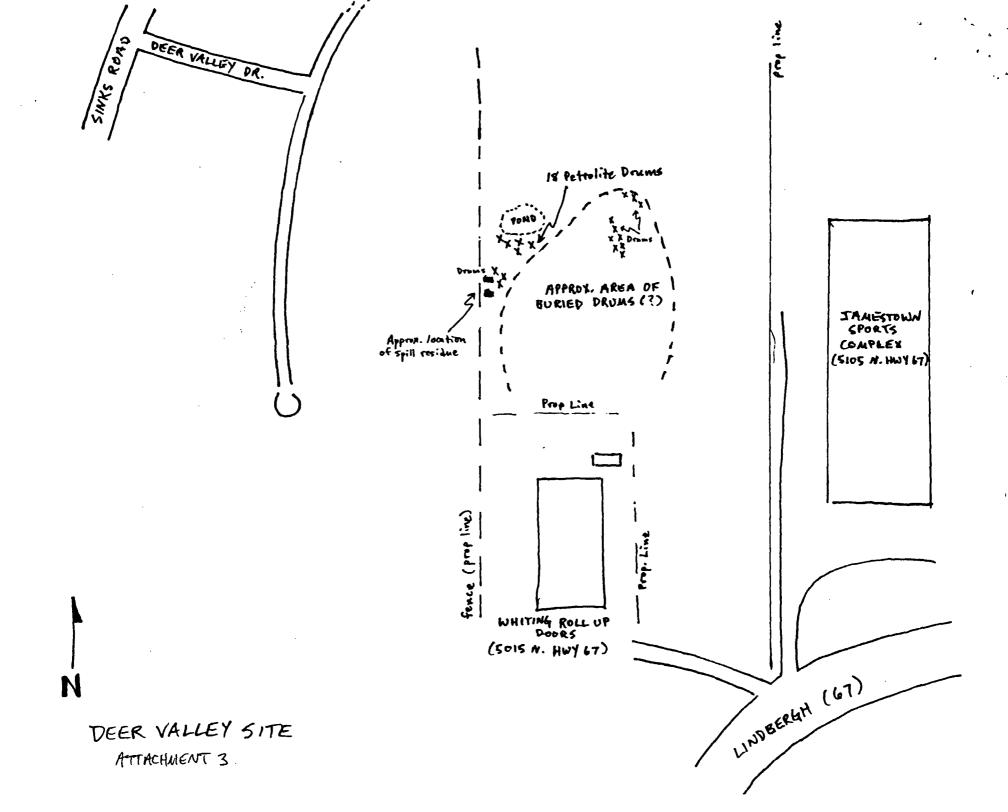
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

PART S DESCRIPTION	T HAZARDOUS CONDITIONS AND INCIDE		
I, HAZARDOUS CONDITIONS AND INCIDENTS D1 MA. GROUNDWATER CONTAMINATION	02 ☐ OBSERVED (DATE:)	A POTENTIAL	[] ALLEGED
7		• • • •	[] ALLEGED
site is in region of Karst	topography; direct routes	te groundwat	er exist.
01 MB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 L: OBSERVED (DATE 04 NARRATIVE DESCRIPTION) APOTENTIAL	1) ALLEGED
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED	02 L' OBSERVED (DATE	() POTENTIAL	(? ALEGED
01 [] D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED	02 - OBSERVED (DATE) (i) POTENTIAL	(i) ALLEGED
01 DE DRECT GONTACT 03 POPULATION POTENTIALLY AFFECTED: New residential develop	027) OBSERVED IDATE: 04 NARRATIVE DESCRIPTION O'MENT CUrrently Under Cons	i protential struction near	LI ALLEGED
01 X F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 OBSERVED (DATE		[]_ALLEGED
solidified spill residue contents by drum recondition	e observed. If site was use, ener, soil may be contamina	d for discardin	ng drum
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 () OBSERVED (DATE:) SE POTENTIAL	C) ALLEGED
unlikely; nearby reside	ints assectionty water. However to pography.	er aguifec cox	temination
01 H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) DOTENTAL	C) ALLEGED
01 SQL POPULATION EXPOSURE/INJURY	02 D OBSERVED (DATE:	_) YZ/POTENTIAL	D ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	TI KIOLDING	
See E., above.			

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OI STATE	02 BITE NAMBER

	POTENTIAL HA	OI STATE OF ATTE NAMES				
PRELIMINARY ASSESSMENT			110 0981717011			
		ARDOUS CONDITIONS AND INCIDENTS	7.0101	-, ,,,,,		
L HAZARDOUS CONDITI	ONS AND INCIDENTS (Comment)					
01 J. DAMAGE TO FLOR		02 🗆 OBSERVED (DATE:)	D POTENTIAL	C) ALLEGED		
04 NATURATIVE DESCRIPTION						
01 D K. DAMAGE TO FALE	MA.					
04 NARRATIVE DESCRIPTION		02 [] OBSERVED (DATE:)	D POTENTIAL	() ALLEGED		
01 D L CONTAMINATION		02 - OBSERVED (DATE:)	D POTENTIAL	C) ALLEGED		
04 NARRATIVE DESCRIPTI	ON					
 						
01 M. UNSTABLE CONT		02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED		
03 POPULATION POTENTI		04 NARRATIVE DESCRIPTION				
01 DAMAGE TO OFF	SITE PROPERTY	02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED		
04 NARRATIVE DESCRIPTI	ON	,	B , C			
•		•				
01 O. CONTAMINATION	OF SEWERS, STORM DRAINS, WWTP	02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED		
04 NARRATIVE DESCRIPTI	ON .					
01 M P. BLEGAL/UNAUT	HORIZED DUMPING	02 X OBSERVED (DATE: 12 19 86)	D POTENTIAL	X ALLEGED		
04 KARRATIVE DESCRIPT	ION	OZ NOBOCHYED (DATE:	LI POTENTIAL	M ATTEGED		
Appear	s to be site of past	improper drum disposal.				
. ,,	•	, ,				
		·		•		
05 DESCRIPTION OF ANY	OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZAROS				
	·			•		
			<i>(*)</i>			
# TATAL BANK ATIO			·	- 14 f - 1 - 1 - 1 - 1 - 1		
IV. COMMENTS	POTENTIALLY AFFECTED:		·			
IV. CUMMENTS						
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		•				
V. SOURCES OF INCOR	IMATION (Cite apocatic references, e. g., asses files			······································		
		r compare ordered				
site inspect	ion 12/19/56.					
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Site: Dan / 1" ID#: March To and Break ____ PA Reassessment Results State: Date: Site Name: Deere Valley Site city: St. Louis EPA ID No: MOD 981712011 Recommended Action: comment: State S.I. ongoing SIF Coding/Changes ZI - PA Reassessment (entry) Comment: ZB - Final Strategy (fill out form, entry) Comment: ZL - NFRAP (entry) Comment: Event Qualifier "N" for ZI Entry Change Site Lead to: _____ Other SIF Action:

Summary By: Muley Bulle (Signature)

UNDUNCONTROLLED HAZARDOUS WASTE SITE INVESTIGATION PRELIMINARY ASSESSMENT

SITE LOG

DEER VALLEY SITE 5015 North Highway 67 St. Louis County, Missouri

I. EXECUTIVE SUMMARY

A potential abandoned hazardous waste disposal site has been identified off Highway 67 in an unincorporated area of north St. Louis County. Approximately thirty 55 gallon drums, some possibly containing solvents, were observed. Several areas of spill residue of unknown wastes were observed. In addition, it appeared that a large number of mostly crushed drums had been buried on site by a drum reconditioning business which formerly occupied the property. The potential for past and continued environmental contamination exists due to the local geology.

II. BACKGROUND TO INVESTIGATION

On December 15, 1986 the St. Louis Regional Office of the Missouri Department of Natural Resources recieved a call from Mr. Greg Hayward, a potential property buyer in the new Deer Valley Development east of Sinks Road in St. Louis County. (See Attachment 2.) Mr. Hayward reported that while inspecting a three acre lot in the development he came across some drums of unknown contents. Mr. Hayward requested an investigation by this office.

A site visit was performed on December 19, 1986. Several areas of drum disposal were observed, including a pile of 18 drums possibly containing solvents, and numerous other scattered drums. When it appeared that these were part of an extensive area of buried drums, the decision was made to handle the investigation through the PA/SI program.

III. IDENTITY OF PERSONS INTERVIEWED

Mr. Greg Hayward, complainant 3946 Del Lago Florissant, MD 63034 (314) 921-0360

** NOTE: Mr. Hayward is still a potential buyer of property in Deer Valley, and therefore wishes to remain anonymous during any contact with the Developers of Deer Valley, Wallace-Rees Realty.

Mr. Charles Campbell, Plant Manager Whiting Roll Up Doors 5015 N. Highway 67 Florissant, MO 63033 (314) 741-6880

SUPERFUND MAY 1 3 1987

11 2 3 5 3 1 7 12 0 11

SITE LOG

Mr. Tom Twellman, Owner Jamestown Sports Complex 5105 N. Highway 67 Florissant, MO 63034 (314) 325-5363

Mr. Ron Ferris, Owner Environmental Analysis, Inc. 3363 Parker Spur Florissant, MO 63033 (314) 921-4488

Mr. Lauren Whiting, Owner Whiting Roll Up Doors 113 Ceder Street Akron, NY 14001 (716) 542-5427

Mr. T. J. Robichaux, Director of Safety, Health, & Environmental Affairs Petrolite Corporation 369 Marshall Avenue St. Louis, MD 63119 (314) 968-6053

IV. INVESTIGATION SUMMARY

Preliminary investigations reveal that this site is not on property in Deer Valley, but on adjacent property owned by Teamsters Local #682, Health and Welfare Trust Fund. The 25.3 acre property is directly east of Deer Valley, north of Whiting Roll Up Doors at 5015 N. Highway 67, and west of the Jamestown Sports Complex at 5105 N. Highway 67. (See Attachment 3.) According to Mr. Lauren Whiting, owner of Whiting, the entire property (including that currently occupied by Mr. Whiting) was at one time owned and occupied by a barrel reconditioning company. Mr. Whiting purchased the property in 1965 but shortly thereafter sold it to the Teamsters Local. Mr. Whiting continued operating on the property, and in 1978 purchased back only that 3 acre parcel currently occupied by the company. The property is once again for sale -- negotiations between the Teamsters Local and Mr. Tom Twellman, owner of the Jamestown Sports Complex, are currently underway. The Sports Complex plans to develop outdoor softball fields on the property.

Judging by the condition and location of the various drums observed, the dumping at this site occurred over a long period of time. The drums are apparently the visible portion of what is a large area (perhaps several thousand cubic feet) of buried drums. Where soil erosion has occurred there are partially and completely crushed drums visible several feet below the ground surface. Vegetation appears to be younger than that in adjacent areas. The overall appearance of the site and its relation to the facility reportedly occupied by a drum reconditioner is consistent with dumping that might occur from such a business operating in the 1960's. If these buried drums were only empties dumped by the firm, there may be no cause for great concern. However, if these drums contained hazardous wastes, or if the firm routinely emptied

drum contents onto the ground surface, there is cause for concern because this region is highly karstic. With numerous sinkholes in the immediate vicinity, any wastes would have direct routes to the groundwater.

One group of 18 drums are labelled "Petrolite Corporation, Tretolite Division". A solvent odor was noticable during the December 19 site visit. These drums appeared to be the most recently dumped, and appear to have been in their present location for an estimated 15 to 20 years. One drum in a separate area is marked "Schenectady Chemicals, Inc.", and another drum shows the markings of Dow Chemical Company. All other drums observed on site were not labelled and appeared to have been dumped 20 or more years ago. Several areas of solidified spill residue associated with the drums on site were also observed.

On January 8, 1986 a second site visit was conducted with representatives of Petrolite Corporation to inspect the 18 drums bearing Petrolite labels. Mr. Robichaux, Director of Health, Safety, and Environmental Affairs at the company, thought that judging from the appearance of the drums and visible code letters, the drums were approximately 20 years old and had contained ignitable hazardous resins when full. His subsequent file search revealed that the drums formerly contained phenolic formaldehyde resins in aromatic hydrocarbons, used as demulsifiers in oil production, for export to Venezuela in the 1960's. Evidently, some of the product was returned to Petrolite due to polymerization which prevented its use. After Petrolite recovered any remaining free liquids, the drums were discarded. At this time Mr. Robichaux has not determined how the drums were discarded, but sale to a drum reconditioner is considered likely.

Although these products would be considered hazardous based on ignitability, all ignitable constituents would have volatized by now. However, because the drums could have been used for storage of other hazardous products by unknown parties subsequent to Petrolite's disposal, Mr. Robichaux has indicated that Petrolite Corporation is willing to remove all drums at the site marked with their name, and transport them to their facility in St. Louis for storage and sampling. Discussions continue between Petrolite and the Department as to the requirements and ramifications of this action, if implemented.

Mr. Ron Ferris, owner of Environmental Analysis, Inc., is also a property owner in Deer Valley. Because he, Mr. Hayward, and Mr. Twellman are anxious to expedite this investigation, he is considering coordinating with all interested parties for independent sampling of the site and adjoining properties.

V. CONCLUSIONS AND RECOMMENDATIONS

A potential hazardous waste disposal site has been identified in north St. Louis County. Both the current owner and potential purchaser of this property have been notified of the site discovery and the continuing investigation. EPA Form 2070-11, Site Identification Form, has been completed.

Sampling of the drum contents, spill residue, and nearby soils has been scheduled. A metal detector sweep of the site to determine the extent of drum burial is recommended. Excavation of several buried drums, and sampling of any contained wastes, should also be performed. Should any samples show the presence of hazardous constituents, a Site Inspection should be completed.

Any independant sampling activity or drum removal should be coordinated with the Department of Natural Resources to ensure that a thorough sampling program is initiated and that future sampling by the Department is not required.

VI. SIGNATURES

PREPARED BY:

Michael J. Wolf

Environmental Specialist

Mo. Department of Natural Resources

St. Louis Regional Office

APPROVED BY:

F. Donald Maddox

Regional Administrator

Mo. Department of Natural Resources

St. Louis Regional Office

VII. ATTACHMENTS

- 1. Preliminary Assessment Form (EPA 2070-12)
- 2. Topographic map showing site
- 3. Site sketch

FDM/MJW/dl

SEPA

Potential Hazardous Waste Site

Preliminary Assessment

SUPERFUND MAY 1 3 1987 SITE LOG





ecology and environment, inc.

CLOVERLEAF BUILDING 3, 6405 METCALF, OVERLAND PARK, KANSAS 66202, TEL. 913/432-9961

International Specialists in the Environment

MEMORANDUM

TO:

Paul Doherty, RPO

THRU:

John Caoile, FITO

FROM:

Gavle Havs. E & E/FIT

DATE:

May 27, 1988

SUBJECT:

Comments on the Reassessment of the Preliminary Assessment of

1D # Hat 987132 111

Break

Deere Valley Site in St. Louis, Missouri PAN #F07Z110PA

TDD #F-07-8801-019

Superfund Contact: Gene Gunn CERCLIS # MOD981712011

INTRODUCTION

The Region VII U.S. Environmental Protection Agency (EPA) tasked the Ecology and Environment, Inc. Field Investigation Team (E & E/FIT) through Technical Directive Document (TDD) #F-07-8801-019 to conduct a preliminary assessment reevaluation of the Deer Valley site, located in St. Louis, Missouri.

SITE HISTORY

Thirty 55 gallon drums containing solvents were observed on site. A PA was performed by MDNR on December 30, 1986. An SI was performed by MDNR on January 21, 1987 and March 3, 1987. An RI Plan is in review as of January 12, 1988. MDNR is still working to remove drums from the site.

RECOMMENDATIONS

Since MDNR is actively working on this site and the RI is underway, we recommend that no further EPA action is needed, at this time.

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POTENTIAL HAZARDOUS WASTE SITE TENTATIVE DISPOSITION						• 14	9817120	<u>-</u>
File this form in the regional Haza System: Hazardous Waste Enforcem	rdous Waste Log	File and submit a	St., SW: Was	S. Environ	mental P:	rotection X	ency: Site	Tracking
		I. SITE IDENTI					·	TO THE TAKE THE
A. SITE NAME			B. STREET					
Deer Valley Site			5015	N. Hwy	67			
C. CITY			D. STATE			E. ZIP CO	DOE	1
St. Louis			MO	MO 63034				
		II. TENTATIVE D						
Indicate the recommended action(s,	and agency(ies	s) that should be in	nvolved by ma	rking 'X' l	n the app			
REC	OMMENDATION		MARK'X'		ACTION AGENCY EPA STATE LOCAL PRIVAT			
A. NO ACTION NEEDED - NO HAZA	RD.				\$15\b			
B. INVESTIGATIVE ACTION(S) NEEDED (II yes, complete Section III.)						x		
C. REMEDIAL ACTION NEEDED (II y	es, complete Sect	ion IV•)						·
ENFORCEMENT ACTION NEEDED O. be primarily managed by the EPA or is anticipated.) E. RATIONALE FOR DISPOSITION	(il yes, specily the State and wh	in Part E whether th at type of enforceme	e case will nt action		- •-	· .	<u>. </u>	
Site inspection determined that an unknown quantity of hazardous substances is buried on-site. Buried drums were intermingled with metal debris, making detection difficult.								
F. INDICATE THE ESTIMATED DATE (mo., day, & yr.)	OF FINAL DISF	POSITION .	G. IF A CASE ESTIMATE (mo., day, &	D DATE ON			SSARY, INDI	
H. PREPARER INFORMATION								
1, NAME			2. TELEPHO	ONE NUMBER 3. DATE (mo., day, & yr.)				y. & yr.).
John Madras			(314) 7	751-2919 10/11/89				9
A LOENTIEY ADDITIONAL INFORMA		VESTIGATIVE A						
A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.								
B. PROPOSED INVESTIGATIVE ACTI	VITY (Desailed I	niometion)		-T		···		
1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo,day, & yr)	3. TO BE PERFORMED BY (EPA, Con- tractor, State, etc.)	4. ESTIMATED MANHOURS	S. REMARKS				
Removal Assessment	•							
(2)					-			
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